

Preliminary Amendment

Applicant(s): DELUGA et al.

Serial No. 10/676,324

Filed: September 30, 2003

For: *PRODUCTION OF HYDROGEN FROM ALCOHOLS*

Page 4 of 4

Remarks

The specification has been amended to correct the government funding source.


Figures 1, 2, 3, 4, 5, 8, 9B, 11A and 11B have been amended as shown on the annotated sheets attached herewith and described below. Support for these amendments can be found in the figures and corresponding portions of the specification as originally filed.

Conclusion

The Examiner is invited to contact Applicants' Representatives at the below-listed telephone number, if there are any questions regarding this Preliminary Amendment or if prosecution of this application may be assisted thereby.

CERTIFICATE UNDER 37 C.F.R. 1.10:

The undersigned hereby certifies that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR §1.10 on the date indicated below and is addressed to the Assistant Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450


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Feb. 23, 2004
Date

AMM/skd

Respectfully submitted for

DELUGA et al.

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ATTACHMENT - REPLACEMENT SHEET(S)

Serial No.: 10/676,324
Docket No.: 110.02040101

Pursuant to 37 C.F.R. §1.121(d), attached are Figures 1-10, labeled "Replacement Sheets," which replace the Figures in the present application,

Amendments are made to Figures 1, 2, 3, 4, 5, 8, 9B, 11A and 11B. Marked-up copies of those figures, labeled "Annotated Marked-up Drawing," are included for the Examiner's convenience.



ANNOTATED MARKED-UP
DRAWING

~~STRATIFIED CATALYST~~

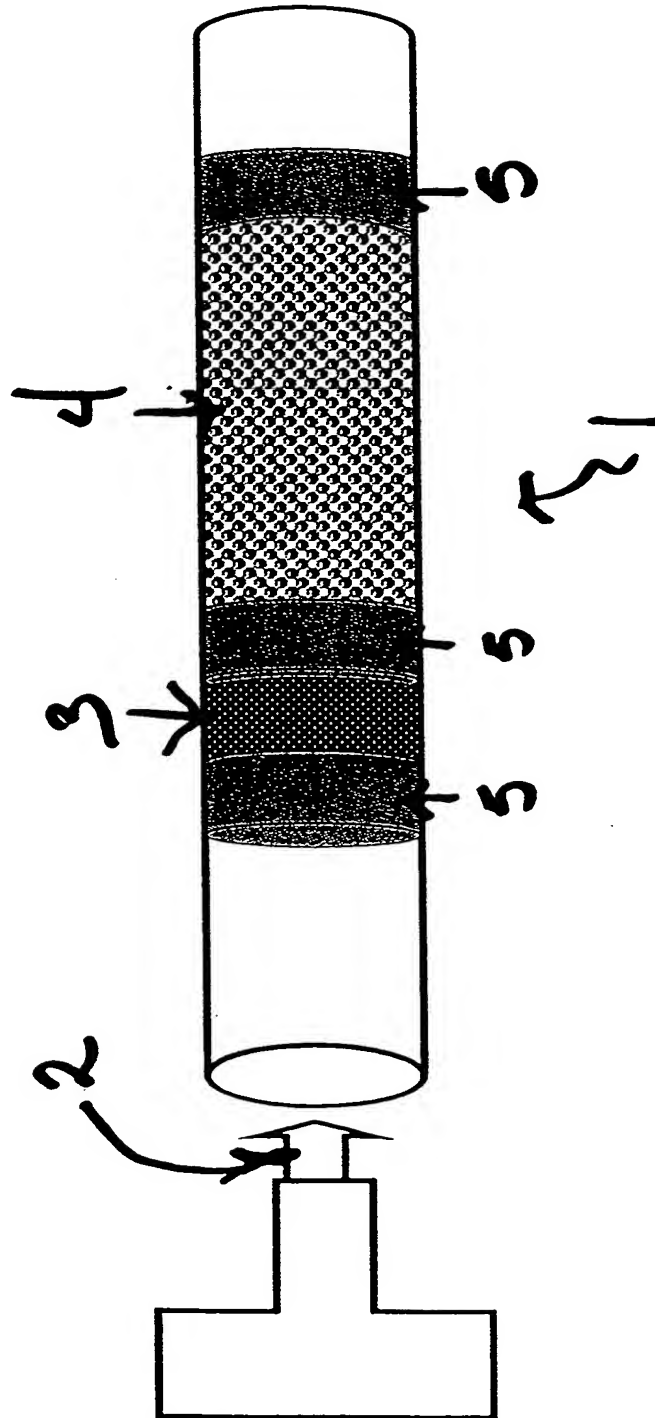
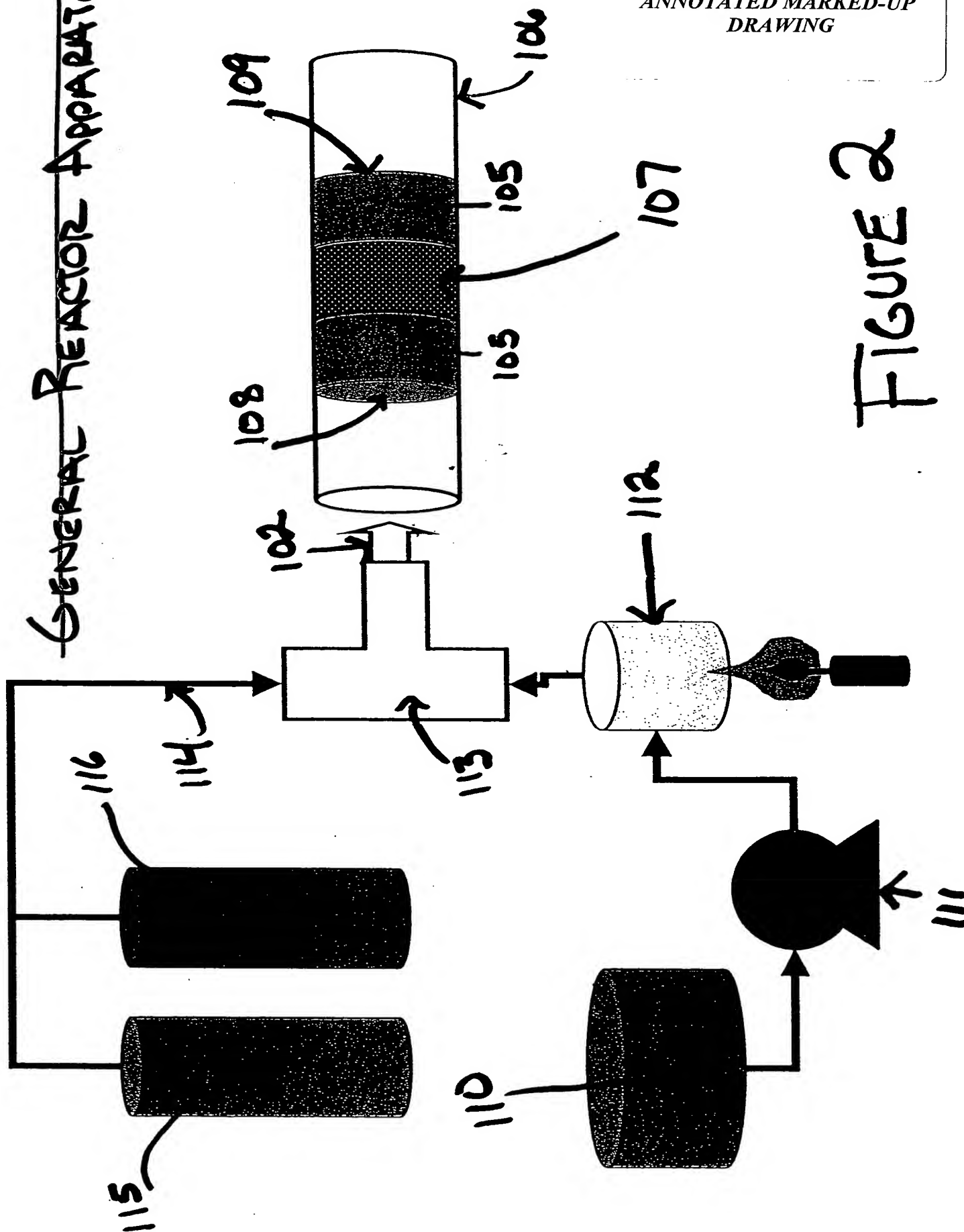


FIGURE 1

GENERAL REACTOR APPARATUS

ANNOTATED MARKED-UP
DRAWING

FIGURE 2



ANNOTATED MARKED-UP
DRAWING

Reactor
with
injector

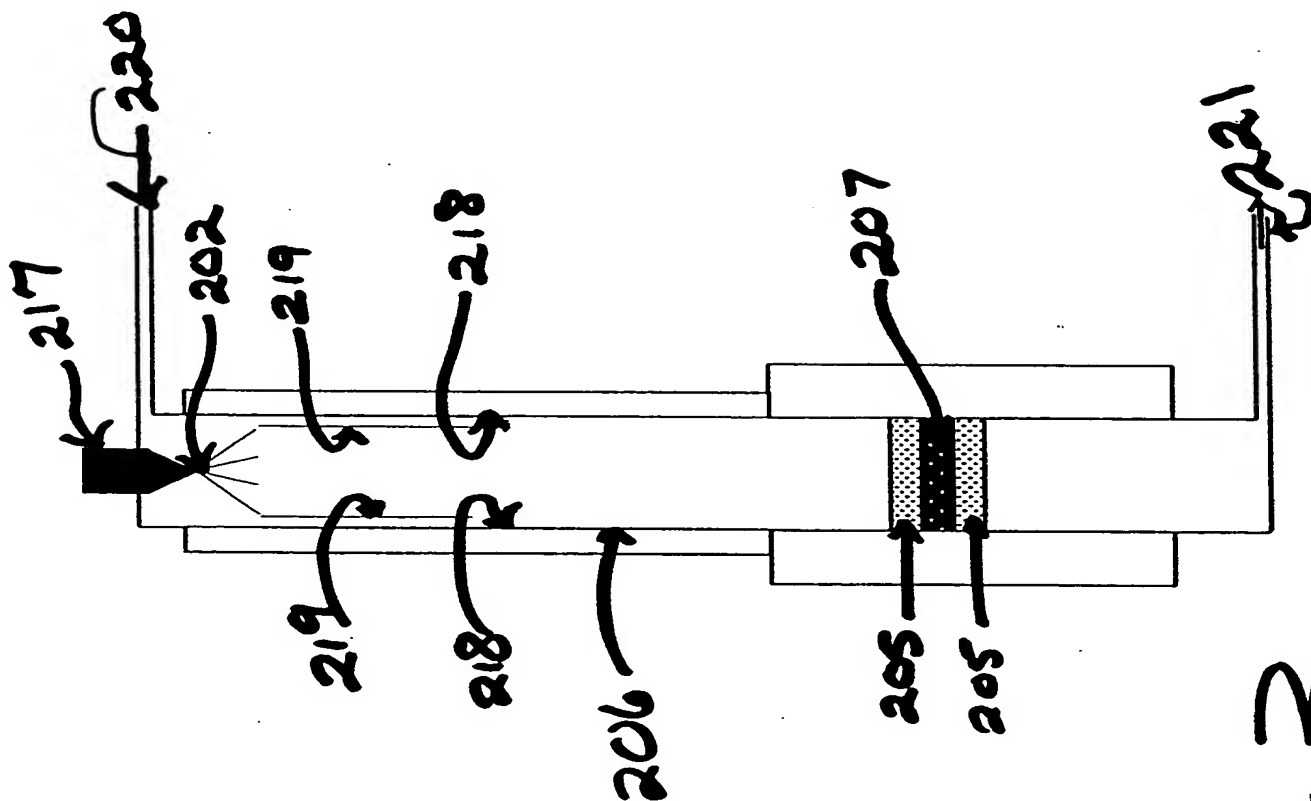


FIGURE 3

ANNOTATED MARKED-UP
DRAWING

Reactor
with
injector
AND
STRATIFIED
CATALYST

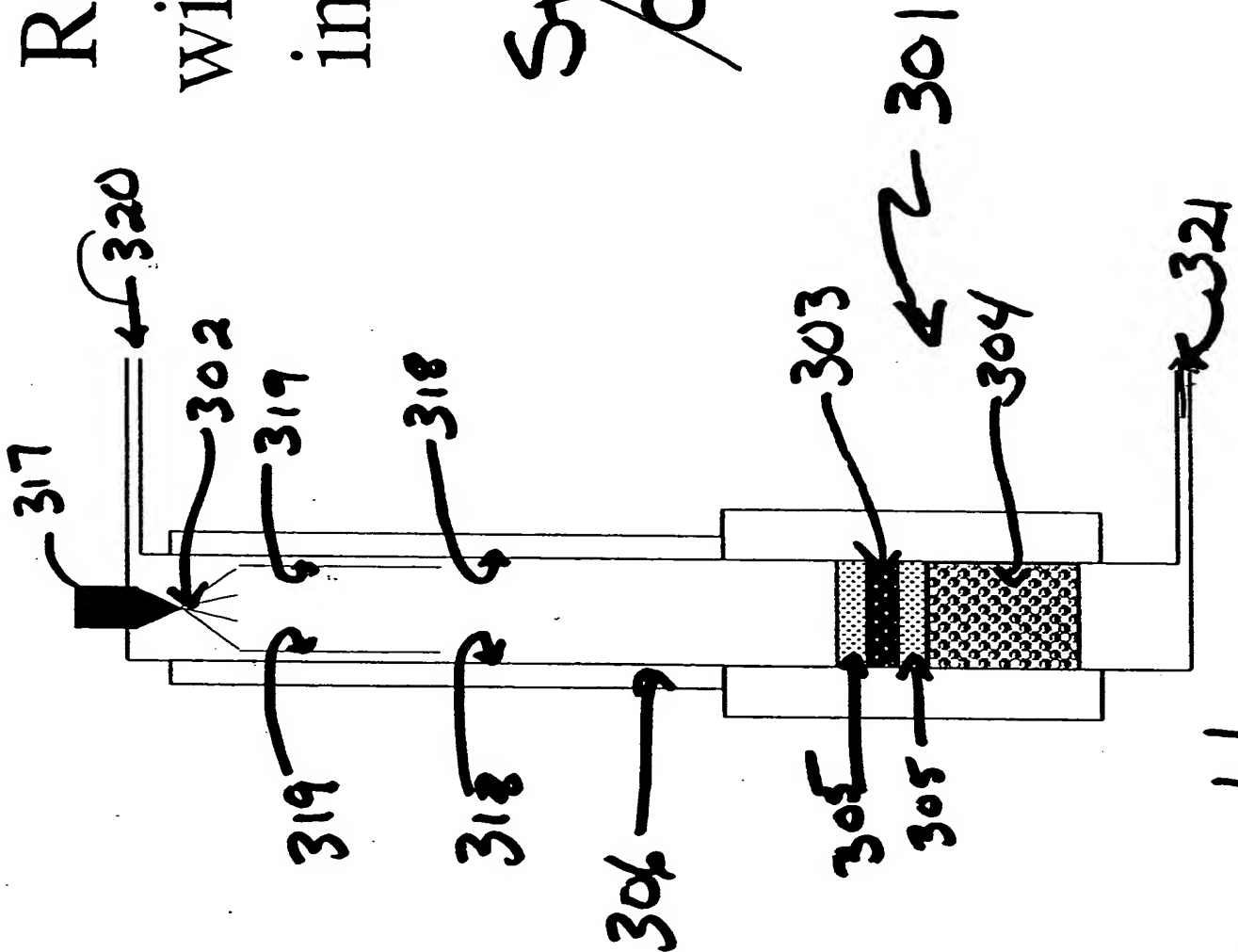


FIGURE 4

**ANNOTATED MARKED-UP
DRAWING**

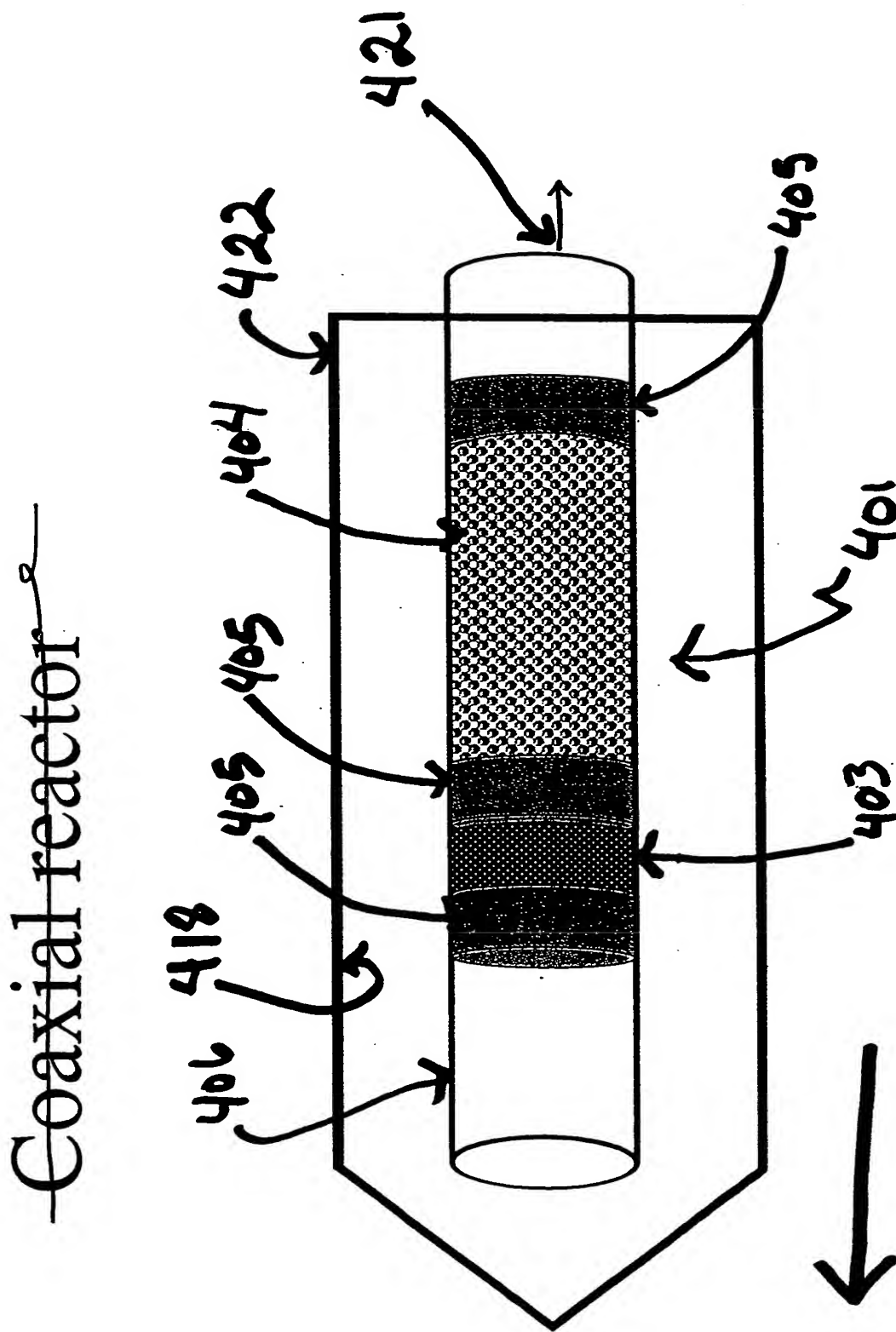
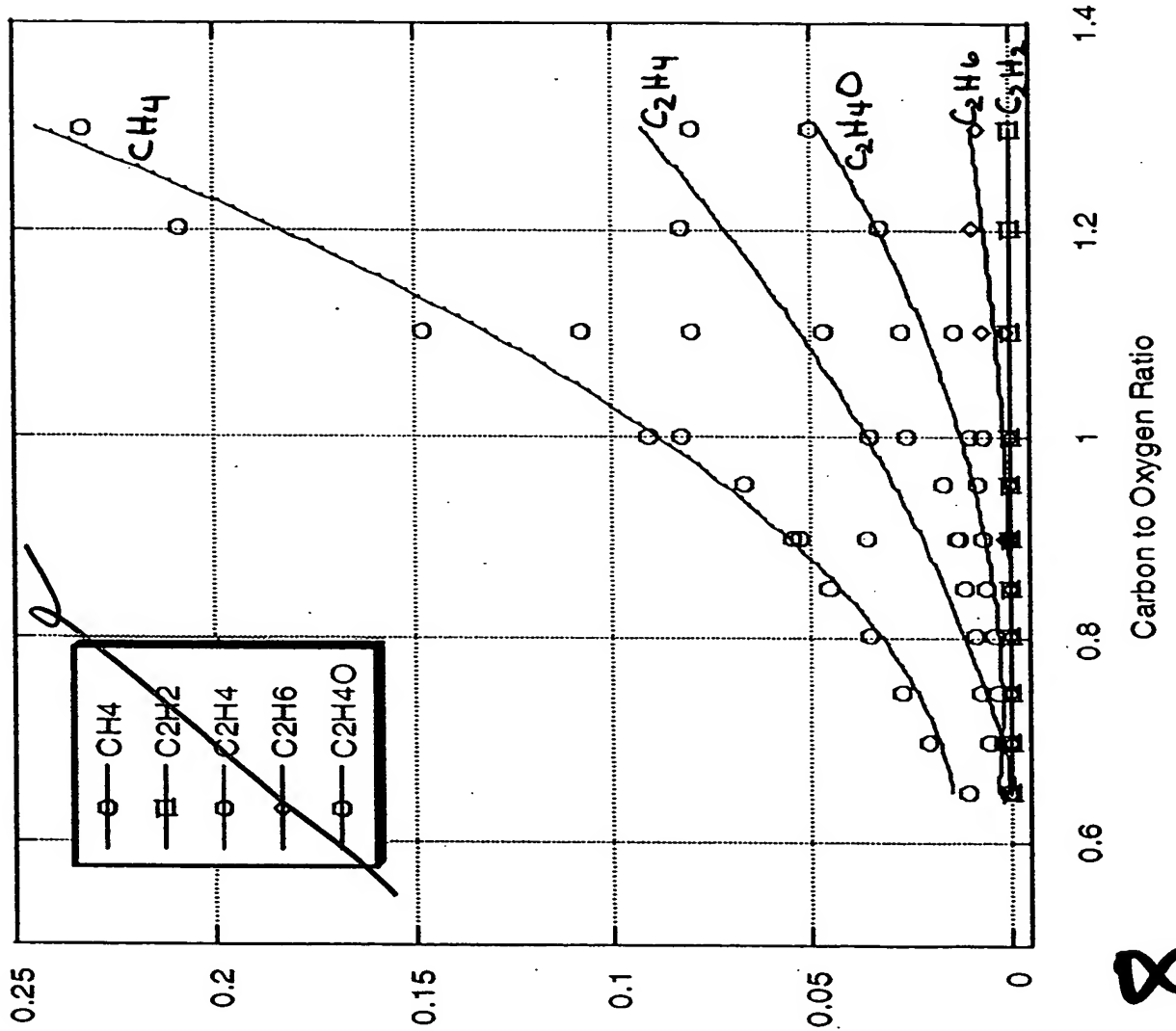


FIGURE 5

ANNOTATED MARKED-UP
DRAWING



Carbon Atom Selectivity
100 mol % EtOH

FIGURE 8

ANNOTATED MARKED-UP
 DRAWING

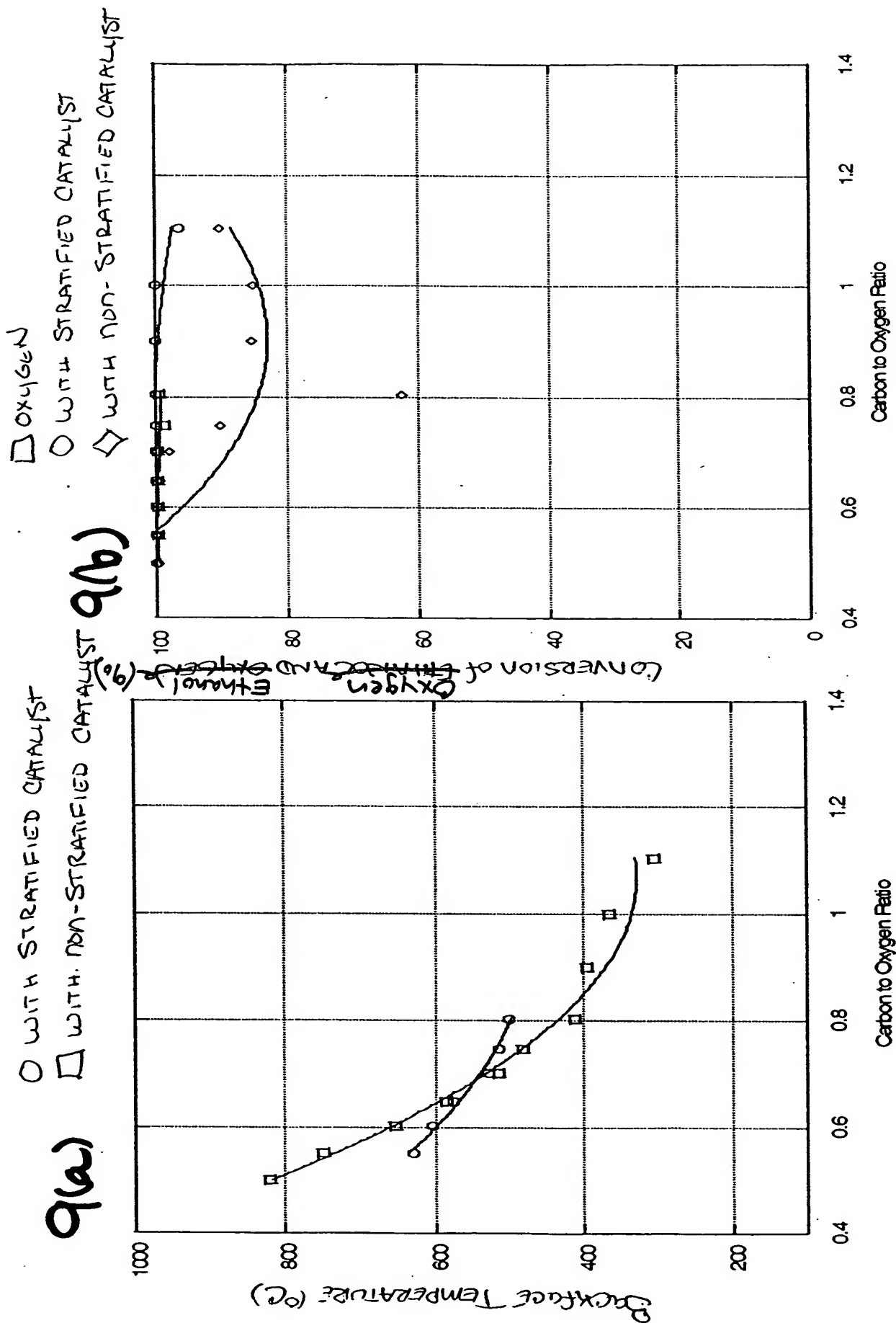
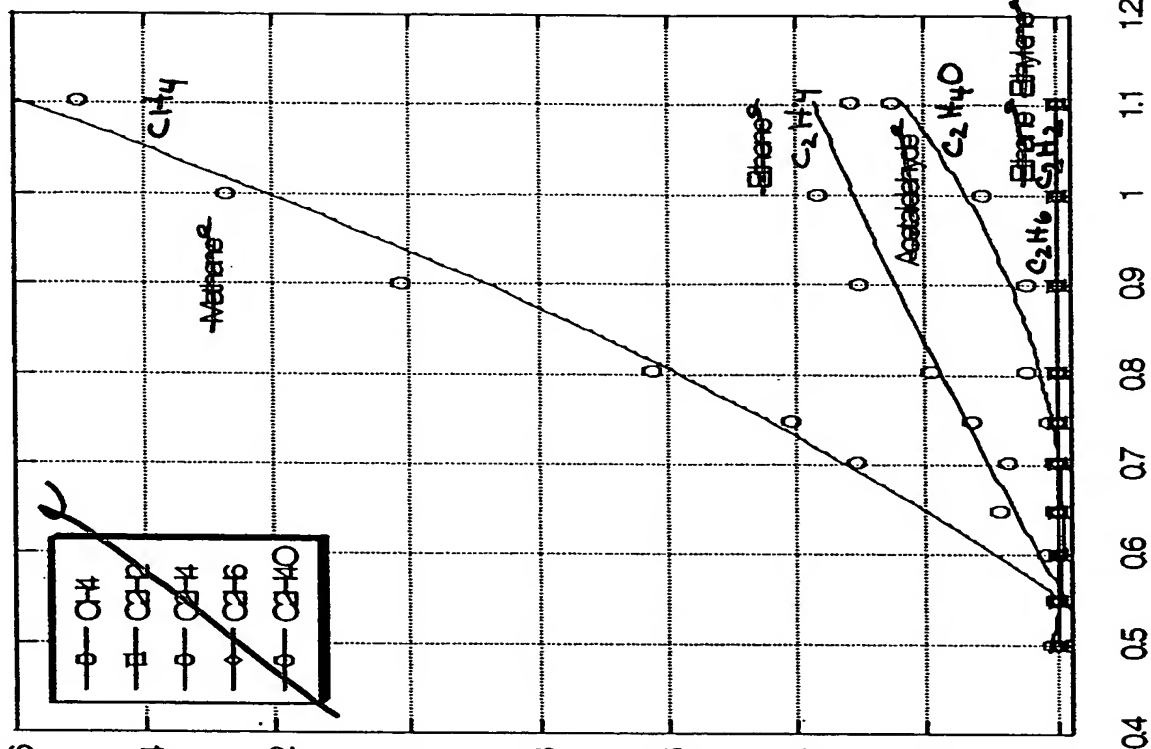


Figure 9

ANNOTATED MARKED-UP
 DRAWING

11(b)

CARBON ATOM SELECTIVITY (NON-STEADY STATE CATALYST)



11(a)

CARBON ATOM SELECTIVITY (STEADY STATE CATALYST)

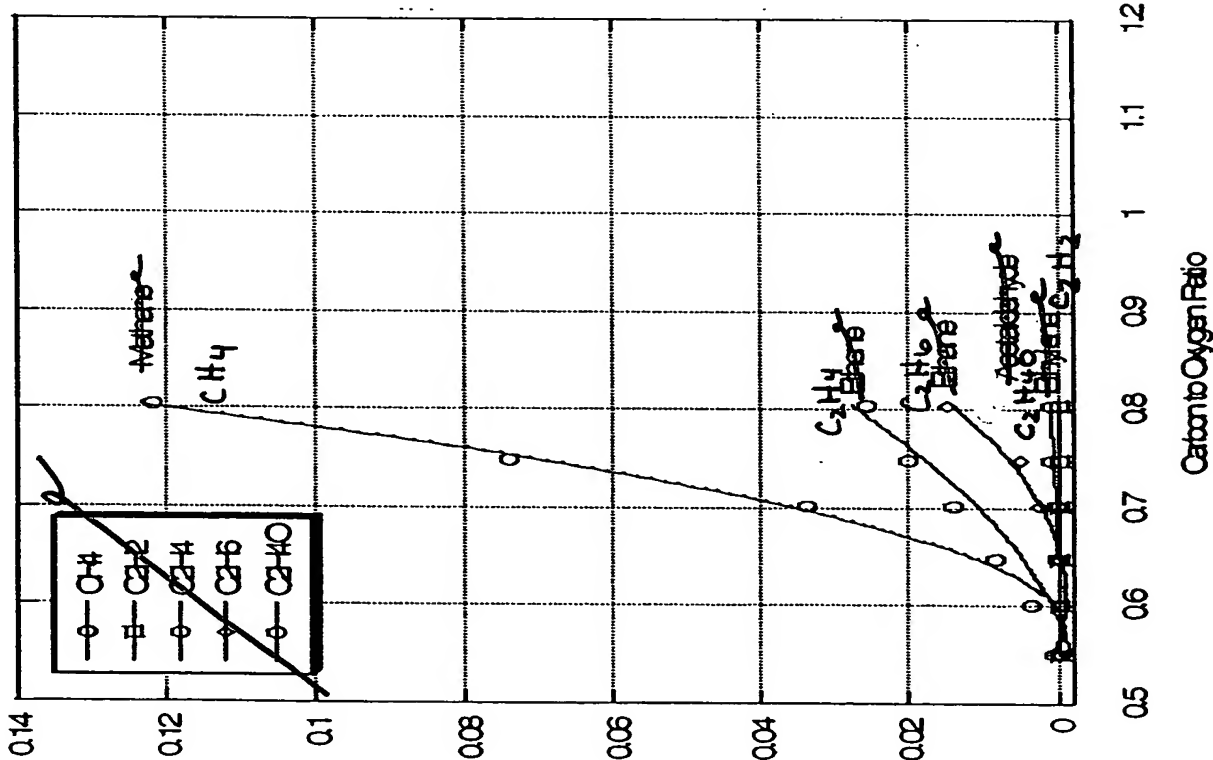


FIGURE 11